

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	267	257/307.cds.	US-PGPUB; USPAT	OR	ON	2007/06/06 16:07
S2	28798	capacitor same electrode same dielectric and 257/307.cds.	US-PGPUB; USPAT	OR	ON	2007/06/06 16:07
S3	163	capacitor same electrode same dielectric and 257/307.cds.	US-PGPUB; USPAT	OR	ON	2007/06/06 16:08
S4	92	capacitor same electrode same dielectric and 257/307.cds. and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/06 16:09
S5	14	capacitor same electrode same dielectric same conductor and 257/307.cds. and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/06 16:12
S6	0	capacitor same electrode same dielectric same conductor same semiconductor layer and 257/307.cds. and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/06 16:11
S7	0	capacitor same electrode same dielectric same conductor same energization and 257/307.cds. and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/06 16:12
S8	2	capacitor same electrode same dielectric same conductor same energization and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/06 16:12
S9	0	capacitor same electrode same dielectric same conductor same semiconductor same energization and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/06 16:13
S10	2	capacitor same electrode same dielectric same conductor same semiconductor same energization	US-PGPUB; USPAT	OR	ON	2007/06/06 16:34
S11	106	naito-kazumi.in.	US-PGPUB; USPAT	OR	ON	2007/06/06 18:02
S12	373437	capacitor conductor same semiconductor same energization	US-PGPUB; USPAT	OR	ON	2007/06/06 16:23
S13	19	capacitor same conductor same semiconductor same energization	US-PGPUB; USPAT	OR	ON	2007/06/06 16:24
S14	6	capacitor same conductor same semiconductor with energization	US-PGPUB; USPAT	OR	ON	2007/06/06 16:25
S15	54	capacitor same semiconductor with energization	US-PGPUB; USPAT	OR	ON	2007/06/06 16:27
S16	29	semiconductor with conductor with energization	US-PGPUB; USPAT	OR	ON	2007/06/06 16:28
S17	0	semiconductor near conductor near energization	US-PGPUB; USPAT	OR	ON	2007/06/06 16:28
S18	15	capacitor same electrode same dielectric same conductor same semiconductor same energization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:49
S19	2468	capacitor same electrode with dielectric with conductor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:39
S20	7	capacitor same electrode near dielectric near conductor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 16:39

## EAST Search History

S21	0	method of manufacturing a capacitor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/06 16:50
S22	0	method of manufacturing a capacitor.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/06 16:51
S23	1185	method manufacturing capacitor.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/06/06 16:52
S24	849	method manufacturing capacitor.ti. and @py<"2004"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/06/06 16:59
S25	0	S24 and energization	US-PGPUB; USPAT	OR	ON	2007/06/06 17:01
S26	5	S24 and protrusion	US-PGPUB; USPAT	OR	ON	2007/06/06 17:31
S27	1613313	S24 and protrusion with dielectric layer	US-PGPUB; USPAT	OR	ON	2007/06/06 17:31
S28	0	S24 and protrusion with dielectric layer	US-PGPUB; USPAT	ADJ	ON	2007/06/06 17:31
S29	1	S24 and protrusion same dielectric layer	US-PGPUB; USPAT	ADJ	ON	2007/06/06 17:31
S30	5	("4977098"   "5037773"   "5043780"   "5135886"   "5208479").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 17:34
S31	0	capacitor with dielectric adj layer with protrusions	US-PGPUB; USPAT	OR	ON	2007/06/06 17:35
S32	33	capacitor with dielectric adj layer with protrusions	US-PGPUB; USPAT	OR	ON	2007/06/07 08:01
S33	177	capacitor with dielectric with metal with (silicon or semiconductor) adj layer	US-PGPUB; USPAT	OR	ON	2007/06/06 17:41
S34	0	capacitor with fine adj protrusions with dielectric with metal with (silicon or semiconductor) adj layer	US-PGPUB; USPAT	OR	ON	2007/06/06 17:41
S35	0	capacitor with protrusions with dielectric with metal with (silicon or semiconductor) adj layer	US-PGPUB; USPAT	OR	ON	2007/06/06 17:41
S36	0	capacitor same protrusions with dielectric with metal with (silicon or semiconductor) adj layer	US-PGPUB; USPAT	OR	ON	2007/06/06 17:42
S37	177	capacitor with dielectric with metal with (silicon or semiconductor) adj layer	US-PGPUB; USPAT	OR	ON	2007/06/06 17:42
S38	100	capacitor with dielectric with metal with (silicon or semiconductor) adj layer and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/06 17:43
S39	52	361/122.cds.	US-PGPUB; USPAT	OR	ON	2007/06/06 18:03
S40	0	S39 and capacitor	US-PGPUB; USPAT	OR	ON	2007/06/06 18:03
S41	431674	electrolytic capacitor	US-PGPUB; USPAT	OR	ON	2007/06/07 07:32

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S42	7541	electrolytic capacitor	US-PGPUB; USPAT	ADJ	ON	2007/06/07 07:32
S43	83	electrolytic capacitor same semiconductor layer	US-PGPUB; USPAT	ADJ	ON	2007/06/07 07:41
S44	2	electrolytic capacitor same dielectric layer with protrusions	US-PGPUB; USPAT	ADJ	ON	2007/06/07 07:42
S45	0	electrolytic capacitor same oxide layer with protrusions	US-PGPUB; USPAT	ADJ	ON	2007/06/07 07:42
S46	1	electrolytic capacitor same oxide with protrusions	US-PGPUB; USPAT	ADJ	ON	2007/06/07 07:43
S47	44	capacitor with dielectric adj layer with protrusions	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:16
S48	62	electrolytic capacitor same form same semiconductor same volt\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:22
S49	0	electrolytic capacitor same form same semiconductor same electrolytic polymerization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:23
S50	0	electrolytic capacitor same form same organic same electrolytic polymerization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:24
S51	0	electrolytic capacitor same electrolytic polymerization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:24
S52	13	electrolytic capacitor same semiconductor same electrolytic polymerization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:55
S53	6	("4724053"   "4943892"   "4959753"   "5140502"   "5174867"   "5187650").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/07 08:26
S54	0	electrolytic capacitor same protrusions same before same semiconductor same electrolytic polymerization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:56

## EAST Search History

S55	0	electrolytic capacitor same protrusions same semiconductor same electrolytic polymerization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:56
S56	3	electrolytic capacitor same protrusions same electrolytic polymerization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/07 08:56
S57	10	("4085435"   "4110815"   "4785380"   "4805074"   "4934033"   "5198967"   "5428500"   "5432029"   "5443602"   "5473503").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/07 09:32
S58	790	electrolytic capacitor and "29".das.	US-PGPUB; USPAT	ADJ	ON	2007/06/07 14:24
S59	552	electrolytic capacitor and "29".das. and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/07 14:28
S60	6	electrolytic capacitor same dielectric same protruding and "29".das. and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/07 14:42
S61	8	("3950842").URPN.	USPAT	OR	ON	2007/06/07 14:41
S62	10	electrolytic capacitor same dielectric same protruding and "29".das. and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/07 14:42
S63	1	"20070002526"	US-PGPUB; USPAT	OR	ON	2007/06/07 16:57
S64	16	("2753331"   "3634110"   "4219382"   "4468291"   "4487667"   "4547270"   "4566955"   "4582575"   "4582587").PN. OR ("4724053").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 10:01
S65	8	("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 10:09
S66	26	("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN. OR ("4943892").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 10:26
S67	95	electrolytic capacitor with inorganic semiconductor	US-PGPUB; USPAT	WITH	ON	2007/06/08 10:27
S68	95	electrolytic capacitor with inorganic semiconductor	US-PGPUB; USPAT	WITH	ON	2007/06/08 10:39
S69	206	capacitor with inorganic semiconductor	US-PGPUB; USPAT	WITH	ON	2007/06/08 10:40
S70	216	electrolytic capacitor with inorganic	US-PGPUB; USPAT	WITH	ON	2007/06/08 10:59
S71	0	py<"2004"	US-PGPUB; USPAT	WITH	ON	2007/06/08 10:40
S72	106	electrolytic capacitor with inorganic and @py<"2004"	US-PGPUB; USPAT	WITH	ON	2007/06/08 10:41
S73	16	electrolytic capacitor with inorganic same (molybdenum dioxide or tungsten dioxide or lead dioxide or manganese dioxide)and @py<"2004"	US-PGPUB; USPAT	WITH	ON	2007/06/08 10:59
S74	352	electrolytic capacitor with conductivity	US-PGPUB; USPAT	ADJ	ON	2007/06/08 12:58
S75	11	electrolytic capacitor near conductivity and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 12:59
S76	2686	(semiconductor or solid electrolyte) near conductivity and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 13:05

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S77	282	( solid electrolyte) near conductivity and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 13:05
S78	3	electrolytic capacitor same (semiconductor or solid electrolyte)layer near conductivity and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 13:06
S79	1	("4959753").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 13:06
S80	24	("4780796"   "4785380"   "4803596").PN. OR ("4959753").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 13:07
S81	9	("4780796"   "4803596"   "4910645"   "4959753"   "5223120"   "5225495"   "5436796"   "5455736"   "5473503").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 13:17
S82	1	capacitor same impregnat\$3 with semiconductor with 85%	US-PGPUB; USPAT	OR	ON	2007/06/08 13:18
S83	42	capacitor same impregnat\$3 with semiconductor	US-PGPUB; USPAT	OR	ON	2007/06/08 13:18
S84	24	capacitor same impregnat\$3 with semiconductor and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/08 13:19
S85	2088	capacitor same (impregnat\$3 or doped) with semiconductor and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/08 13:20
S86	15	electrolytic capacitor same (impregnat\$3 or doped) with semiconductor and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 15:07
S87	322	electrolytic capacitor same semiconductor and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 15:07
S88	4	electrolytic capacitor same laminated near conductor and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 15:19
S89	0	protrusions same ".1" near "60" near nm	US-PGPUB; USPAT	ADJ	ON	2007/06/08 15:20
S90	38	protrusions same electrolytic capacitor	US-PGPUB; USPAT	ADJ	ON	2007/06/08 15:20
S91	10	("4085435"   "4110815"   "4785380"   "4805074"   "4934033"   "5198967"   "5428500"   "5432029"   "5443602"   "5473503").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 15:24
S92	125315	manganese dioxide near (spot or island)	US-PGPUB; USPAT	OR	ON	2007/06/08 15:32
S93	1	manganese dioxide near (spot or island)	US-PGPUB; USPAT	SAME	ON	2007/06/08 15:48
S94	26	("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN. OR ("4943892").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 15:32
S95	0	dielectric same manganese dioxide near (spot or island)	US-PGPUB; USPAT	SAME	ON	2007/06/08 15:49
S96	10	dielectric same dioxide near (spot or island)	US-PGPUB; USPAT	SAME	ON	2007/06/08 15:49
S97	15	("4697000"   "4803596"   "4910645"   "4943892"   "5236627"   "5482655"   "5766515"   "5792558"   "6001281"   "6128180"   "6151205"   "6219223"   "6229689"   "6344966"   "6381121").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 17:22
S98	8	("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 16:05
S99	7	fine adj (protrusions or islands or feather-like or spots) same capacitor	US-PGPUB; USPAT	OR	ON	2007/06/08 16:08
S100	5039	(protrusions or islands or feather-like or spots) same capacitor	US-PGPUB; USPAT	OR	ON	2007/06/08 16:08

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S10 1	5044	(protrusions or islands or feather or spots) same capacitor	US-PGPUB; USPAT	OR	ON	2007/06/08 16:08
S10 2	12	fine adj (protrusions or islands or feather-like or spots) same capacitor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 16:50
S10 3	0	fine manganese oxide particles same capacitors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 16:24
S10 4	4	fine manganese oxide particles	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 16:24
S10 5	195	fine adj (protrusions or islands or feather-like or spots or grain) same capacitor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 16:51
S10 6	0	py<"2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 16:51
S10 7	162	fine adj (protrusions or islands or feather-like or spots or grain) same capacitor and @py<"2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 16:52
S10 8	0	manganese dioxide near conductive polymer film	US-PGPUB; USPAT	ADJ	ON	2007/06/08 17:23
S10 9	45	manganese dioxide near conductive polymer	US-PGPUB; USPAT	ADJ	ON	2007/06/08 18:01
S11 0	15	manganese dioxide near conductive polymer and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 17:26
S11 1	2	manganese dioxide near protrusions and @py<"2004"	US-PGPUB; USPAT	ADJ	ON	2007/06/08 17:27
S11 2	5	("5621608"   "6110234"   "6185091"   "6224639"   "6262878").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 17:28
S11 3	26	("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN. OR ("4943892").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 18:09
S11 4	15	("4697000"   "4803596"   "4910645"   "4943892"   "5236627"   "5482655"   "5766515"   "5792558"   "6001281"   "6128180"   "6151205"   "6219223"   "6229689"   "6344966"   "6381121").PN. OR ("7221554").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 18:22

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S11 5	15	("3345545"   "4090231"   "4943892"   "5075940"   "5586001"   "5949639"   "5951840"   "5959831"   "5965062"   "6042740").PN. OR ("6191936").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/08 18:23
S11 6	3	"3454473"	US-PGPUB; USPAT	OR	ON	2007/06/11 11:45
S11 7	8	"3621342"	US-PGPUB; USPAT	OR	ON	2007/06/11 12:17
S11 8	17	"4580855"	US-PGPUB; USPAT	OR	ON	2007/06/11 12:22
S11 9	682	capacitor same dielectric same (protrusions island feather)	US-PGPUB; USPAT	OR	ON	2007/06/11 12:23
S12 0	390	capacitor same dielectric same (protrusions island feather)and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/11 12:39
S12 1	4	electrolytic adj capacitor same dielectric same (protrusions island feather)and @py<"2004"	US-PGPUB; USPAT	OR	ON	2007/06/11 12:23
S12 2	2	"3174209"	US-PGPUB; USPAT	OR	ON	2007/06/11 12:39
S12 3	6	"3241008"	US-PGPUB; USPAT	OR	ON	2007/06/11 12:42
S12 4	5	"3481029"	US-PGPUB; USPAT	OR	ON	2007/06/11 12:46
S12 5	0	fine adj protrusion with dielectric with (nano\$met\$3 or nanometer)	US-PGPUB; USPAT	OR	ON	2007/06/12 07:58
S12 6	3	protrusion with dielectric with (nano\$met\$3 or nanometer)	US-PGPUB; USPAT	OR	ON	2007/06/12 07:59
S12 7	10	islands with dielectric with (nano\$met\$3 or nanometer)	US-PGPUB; USPAT	OR	ON	2007/06/12 08:01
S12 8	46	islands with insulat\$4 with (nano\$met\$3 or nanometer)	US-PGPUB; USPAT	OR	ON	2007/06/12 08:09
S12 9	18	islands with oxide with (nano\$met\$3 or nanometer)	US-PGPUB; USPAT	OR	ON	2007/06/12 08:09
S13 0	3	("4980341"   "5053383"   "5157466").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/12 08:16
S13 1	229	forming with oxide with protrusions	US-PGPUB; USPAT	OR	ON	2007/06/12 08:18
S13 2	229	forming with oxide with protrusions and ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 08:18
S13 3	177	forming with oxide with protrusions and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 08:19
S13 4	3	forming with oxide with (protrusions or islands)with (nanometer or nano\$met\$3) and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 08:21
S13 5	10	forming with (oxide or insula\$4 or dielectric) with (protrusions or islands)with (nanometer or nano\$met\$3 or micrometer) and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 10:16
S13 6	10	forming with (oxide or insula\$4 or dielectric) with (protrusions or islands or feather-like)with (nanometer or nano\$met\$3 or micrometer) and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 10:17
S13 7	17	forming with (oxide or insula\$4 or dielectric) with (protrusions or islands or feather-like)with (nanometer or nano\$met\$3 or micrometer) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:24

## EAST Search History

S13 8	922	(protrusions or islands or feather-like)with (nanometer or nano\$met\$3 or micrometer) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:25
S13 9	163	(protrusions or islands or feather-like)with (nanometer or nano\$met\$3 or micrometer) and @ad<"20030926" and "438". clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:29
S14 0	2	forming same (protrusions or islands or feather-like)with oxidation with (nanometer or nano\$met\$3 or micrometer) and @ad<"20030926" and "438".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:29
S14 1	4	forming same (protrusions or islands or feather-like)with oxid\$6 with (nanometer or nano\$met\$3 or micrometer) and @ad<"20030926" and "438".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:30
S14 2	4716944	metal oxide with form with (protrusions or island or grains) with (dielectric or insulator or oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:32
S14 4	571	metal oxide with form with (protrusions or island or grains). with (dielectric or insulator or oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 10:32
S14 5	439	metal oxide with form with (protrusions or island or grains) with (dielectric or insulator or oxide)and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 10:36
S14 6	2	metal oxide with form with (protrusions or island or grains) with (dielectric or insulator or oxide)with (nanometer or nano\$met\$3) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 10:39
S14 7	2	roughe\$4 near (dielectric or insulator or oxide)with (nanometer or nano\$met\$3) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 10:47



## EAST Search History

S14 8	258	rough\$4 near (dielectric or insulator or oxide) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 10:40
S14 9	0	fine protrusions near(dielectric or insulator or oxide)with (nanometer or nano\$met\$3) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 10:48
S15 0	0	fine protrusions with(dielectric or insulator or oxide)with (nanometer or nano\$met\$3) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 10:48
S15 1	4	protrusions with(dielectric or insulator or oxide)with (nanometer or nano\$met\$3) and @ad<"20030926"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/12 12:27
S15 2	0	thermal decpcomposition with manganese oxide with (dielectric or insulator or oxide)with (island or protrusion or grain) with (nano\$mete\$3 or nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:29
S15 3	0	thermal decomposition with manganese oxide with (dielectric or insulator or oxide)with (island or protrusion or grain) with (nano\$mete\$3 or nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:29
S15 4	0	thermal with manganese oxide with (dielectric or insulator or oxide)with (island or protrusion or grain) with (nano\$mete\$3 or nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:29
S15 5	0	manganese oxide with (dielectric or insulator or oxide)with (island or protrusion or grain) with (nano\$mete\$3 or nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:29
S15 6	0	manganese oxide with (dielectric or insulator or oxide)with (island or protrusion or grain) with ( nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:30
S15 7	1	manganese dioxide with (dielectric or insulator or oxide)with (island or protrusion or grain) with ( nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:31
S15 8	6	manganese dioxide with (island or protrusion or grain) with ( nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:31
S15 9	0	manganese dioxide with (island or protrusion ) with ( nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:31
S16 0	56	dioxide with (island or protrusion ) with ( nanometer or micrometer or micron or "MU")	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:32
S16 1	29	dioxide with (island or protrusion ) with ( nanometer or micrometer )	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:36
S16 2	0	dioxide with nano near (island or protrusion ) with ( nanometer or micrometer )	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:34
S16 3	6	dioxide with nano with(island or protrusion ) with ( nanometer or micrometer )	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:34

## EAST Search History

S16 4	2	("4551192"   "5463526").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/12 12:34
S16 5	20	dioxide with (island or protrusion ) with ( nanometer )	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:36
S16 6	0	thermal decomposi\$4 same capactor	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:37
S16 7	261	thermal decomposi\$4 same capactor	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:37
S16 8	220	thermal decomposi\$4 same capactor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:38
S16 9	0	thermal decomposi\$4 with (islands or protrusions or spots or fingers or bumps)with nanometer same capactor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:38
S17 0	0	thermal decomposi\$4 with (islands or protrusions or spots or fingers or bumps) same capactor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:38
S17 1	220	thermal decomposi\$4 same capactor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:50
S17 2	0	thermal decomposi\$4 same protrusions same capactor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:50
S17 3	1	thermal decomposi\$4 same islands same capactor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 12:50
S17 4	8	("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/12 13:06
S17 5	0	pyrolysis with protrusions	US-PGPUB; USPAT	OR	ON	2007/06/12 13:08
S17 6	463	protrusions with islands	US-PGPUB; USPAT	OR	ON	2007/06/12 13:08
S17 7	273	protrusions with islands and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:49
S17 8	14	protrusions with islands with (dielectric or oxide or insulator) and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:11
S17 9	144527	protrusion and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:12
S18 0	32	nano near capactor	US-PGPUB; USPAT	OR	ON	2007/06/12 13:32
S18 1	0	nano near size near capactor	US-PGPUB; USPAT	OR	ON	2007/06/12 13:32
S18 2	12	nano near capactor and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:33
S18 3	0	nanoscale near capactor and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:33
S18 4	85	nanoscale same capactor and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:36
S18 5	33631	size same capactor and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:37
S18 6	562	nano same capactor and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:37
S18 7	3	nano adj capactor and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:37
S18 8	0	protrusions with islands with angstroms and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:49
S18 9	2	protrusions with islands with nm and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 14:47

## EAST Search History

S19 0	2	"20050247928"	US-PGPUB; USPAT	OR	ON	2007/06/12 13:53
S19 1	729	conductor with anode with capacitor	US-PGPUB; USPAT	OR	ON	2007/06/12 14:47
S19 2	650	conductor with anode with capacitor and @ad<"20030926"	US-PGPUB; USPAT	OR	ON	2007/06/12 14:48
S19 3	509	metal with anode with electrolytic capacitor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 14:48
S19 4	132	metal near anode with electrolytic capacitor and @ad<"20030926"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 15:04
S19 5	1	"60507942"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 15:08
S19 6	47	"5473503"	US-PGPUB; USPAT	ADJ	ON	2007/06/12 15:08
S19 7	9	"4724053"	US-PGPUB; USPAT	OR	ON	2007/06/13 10:25